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GRAN 1645-#3
PATENT
Attorney Docket No.: 18547-042010US
Client Reference No.: 3295.1

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TOWNSEND and TOWNSEND and CREW LLP

By: Jennifer K. Hordi

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

McGall and Kajisa

Application No.: 09/810,434

Filed: March 15, 2001

For: PHOSPHITE ESTER OXIDATION
IN NUCLEIC ACID ARRAY
PREPARATION

Examiner: Unassigned

Art Unit: 1645

INFORMATION DISCLOSURE
STATEMENT UNDER 37 CFR §1.97 and
§1.98

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

The references cited on attached form PTO-1449 are being called to the attention of the Examiner. Copies of the references are enclosed. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

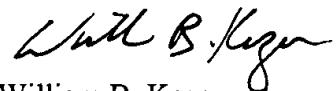
As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and



no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that no fee is required for submission of this statement, since it is being submitted prior to the first Office Action. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,



William B. Kezer
Reg. No. 37,369

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Sheet

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of

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Complete if Known

Application Number	09/810,434
Filing Date	March 15, 2001
First Named Inventor	Glenn McGall
Group Art Unit	1645
Examiner Name	Unassigned

Attorney Docket Number 18547-042010US

U.S. PATENT DOCUMENTS

Examiner Initials ¹	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	1	5,143,854		Pirnng et al.	9/1/92	
	2	5,242,979		Barnum et al.	9/7/93	
	3	5,252,743		Barrett et al.	10/12/93	
	4	5,288,514		Ellman	2/22/94	
	5	5,324,633		Fodor et al.	6/28/94	
	6	5,324,663		Lowe	6/28/94	
	7	5,384,261		Winkler et al.	1/24/95	
	8	5,405,783		Pirnng et al.	4/11/95	
	9	5,412,087		McGall et al.	5/2/95	
	10	5,424,186		Fodor et al.	6/13/95	
	11	5,445,934		Fodor et al.	8/29/95	
	12	5,451,683		Barrett et al.	9/19/95	
	13	5,482,867		Barrett et al.	1/9/96	
	14	5,489,678		Fodor et al.	2/6/96	
	15	5,491,074		Aldwin et al.	2/13/96	
	16	5,510,270		Fodor et al.	4/23/96	
	17	5,527,681		Holmes	6/18/96	
	18	5,545,531		Rava et al.	8/13/96	
	19	5,547,839		Dower et al.	8/20/96	
	20	5,550,215		Holmes	8/27/96	
	21	5,556,752		Lockhart et al.	9/17/96	
	22	5,571,639		Hubbell et al.	11/5/96	
	23	5,578,832		Trulson et al.	11/26/96	
	24	5,593,839		Hubbell et al.	1/14/97	
	25	5,599,695		Pease et al.	2/4/97	
	26	5,624,711		Sundberg et al.	4/29/97	
	27	5,631,734		Stern et al.	5/20/97	
	28	5,658,734		Brock, et al.	8/19/97	
	29	5,677,195		Winkler et al.	10/14/97	
	30	5,710,000		Sapolsky et al.	1/20/98	
	31	5,744,101		Fodor et al.	4/28/98	
	32	5,744,305		Fodor et al.	4/28/98	
	33	5,753,788		Fodor et al.	5/19/98	
	34	5,770,456		Holmes	6/23/98	
	35	5,800,992		Fodor et al.	9/1/98	
	36	5,831,070		Pease et al.	11/3/98	
	37	5,843,655		McGall	12/1/98	
	38	5,856,011		Sqgabe	1/5/99	
	39	5,919,523		Sundberg et al.	7/6/99	
	40	6,022,963		McGall et al.	2/8/00	
	41	6,045,996		Cronin et al.	4/4/00	

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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

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Application Number	09/810,434
Filing Date	March 15, 2001
First Named Inventor	Glenn McGall
Group Art Unit	1645
Examiner Name	Unassigned
Attorney Docket Number	18547-042010US

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Office ³	Number ⁴				
	42	PCT	WO 92/10183	Hill	6/25/92		<input type="checkbox"/>
	43	PCT	WO 99/00730	Tremblay et al	1/7/99		<input type="checkbox"/>
	44	PCT	WO 93/04145	Inoue et al.	3/4/93		<input type="checkbox"/>
	45	PCT	WO 97/10365	Lockhart et al.	3/20/97		<input type="checkbox"/>
	46	PCT	WO 92/10092	Fodor et al.	6/25/92		<input type="checkbox"/>
	47	PCT	WO 94/10128	Holmes et al.	5/11/94		<input type="checkbox"/>
	48	PCT	WO 00/61282	Glazer et al.	10/19/00		<input type="checkbox"/>
	49	PCT	WO 00/21967	McGall et al.	04/20/00		<input type="checkbox"/>
	50	PCT	WO 00/06771	McGall et al.	02/10/00		<input type="checkbox"/>
	51	PCT	WO 99/54509	McGall et al.	10/28/99		<input type="checkbox"/>
	52	PCT	WO 99/40105	Goldberg et al.	02/12/99		<input type="checkbox"/>
	53	PCT	WO 98/39348	McGall et al.	09/11/98		<input type="checkbox"/>
	54	PCT	WO 98/20967	Beecher et al.	05/22/98		<input type="checkbox"/>
	55	PCT	WO 97/39151	Goldberg et al.	10/23/97		<input type="checkbox"/>
	56	PCT	WO 97/43450	Cronin et al.	11/20/97		<input type="checkbox"/>
	57	PCT	WO 97/27317	Lockhart et al.	07/31/97		<input type="checkbox"/>
	58	PCT	EP 742287	McGall et al.	11/13/96		<input type="checkbox"/>
	59	PCT	EP 7288520	Pease et al.	08/28/96		<input type="checkbox"/>
	60	EPO	EP 549107	Western et al.	12/29/97		<input type="checkbox"/>
✓	61	EPO	967217 A2	McGall et al.	12/29/99		<input type="checkbox"/>

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS						
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				T ²
✓	62	MCGALL et al., "The Efficiency of Light-Directed Synthesis of DNA Arrays on Glass Substrates" <i>Journal of the American Chemical Society</i> , 1997, Pages 5081-5090, Vol. 119, No. 22				<input type="checkbox"/>
✓	63	LOCKHART et al., "Expression monitoring by hybridization to high-density oligonucleotide arrays" <i>Nature Biotechnology</i> , 1996, Pages 1675-1680, Vol. 14				<input type="checkbox"/>
✓	64	SAIZIEU et al., "Bacterial transcript imaging by hybridization of total RNA to oligonucleotide arrays" <i>Nature Biotechnology</i> , 1998, Pages 45-48, Vol. 16				<input type="checkbox"/>
✓	65	CHEE et al., "Accessing Genetic Information with High-Density DNA Arrays" <i>Science</i> , 1996, Pages 610-614, Vol. 274				<input type="checkbox"/>

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Group Art Unit	1645
Examiner Name	Unassigned
Attorney Docket Number	18547-042010US

✓ 66	McGALL <i>et al.</i> , "High-density oligonucleotide probe arrays" <i>Proc. SPIE-Int. Soc. Opt. Eng.</i> , 2000, Pages 106-110, Vol. 3926 (Advances in Nucleic Acid and Protein Analyses, Manipulation, and Sequencing)
✓ 67	WALLRAFF <i>et al.</i> , "Lithographic techniques for the fabrication of oligonucleotide arrays" <i>J. Photopolym. Sci. Technol.</i> , 2000, Pages 551-558, Vol 13
✓ 68	GLAZER <i>et al.</i> , "High Surface Area Substrates for DNA Arrays" <i>Mat. Res. Soc. Symp. Proc.</i> , 1999, Pages 371-6, Vol. 576
✓ 69	FIDANZA <i>et al.</i> , "High-Density Nucleoside Analog Probe Arrays for Enhanced Hybridization" <i>Nucleosides and Nucleotides</i> , 1999, Pages 1293-1295, Vol. 18
✓ 70	HACIA <i>et al.</i> , "Enhanced High Density Oligonucleotide Array Based Sequence Analysis using Modified Nucleotide Triphosphates" <i>Nucleic Acids Res.</i> , 1998, Pages 4975-4982, Vol. 26
✓ 71	PIRRUNG <i>et al.</i> , "Proofing of Photolithographic DNA synthesis with 3', 5' - dimethoxybenzoinylloxycarbonyl-protected deoxy-nucleoside phosphoramidites" <i>J.Org. Chem.</i> , 1998, Pages 241-246, Vol. 63

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